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OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国安全生产行业标准

AQ 1036-2007

Safety Inspection Code of Multi-rope Friction Hoist for Coal Mines

煤矿用多绳摩擦式提升机　安全检验规范

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Contents

Foreword I
1 Scope 1
2 Normative References 1
3 Terms and Definitions 2
4 Product Classifications 4
5 Inspection Requirements 5
6 Inspection Contents 8
7 Inspection Methods 14
8 Inspection Rules 16
Appendix A Recommended Basic Parameters and Dimensions for Multi-rope Friction Hoist (Informative) 19

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1　Scope

This standard specifies the product classifications, inspection requirements, inspection contents, inspection methods and inspection rules with regards to multi-rope friction hoist for coal mines (hereinafter referred to as "hoist").

This standard is applicable to hoists on the coal mine ground used for hoisting mineral, personnel, materials and equipment with a vertical shaft.

2　Normative References

The following documents contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction), or revisions of, any of these publications do not apply. However, the parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards. For undated references, the latest edition of the normative document referred to applies.

GB 2894 "Safety Signs" (GB 2894-1996, neq ISO 3864:1984)

GB/T 3768 "Acoustics-Determination of Sound Power Levels of Noise Sources Using Sound Pressure-Survey Method Using an Enveloping Measurement Surface over a Reflecting Plane "(GB/T 3768-1996, eqv ISO 3746:1995)

GB/T 7679.3-2005 "Mining Machinery Terminology-Part 3: Winding Equipment"

GB 9969.1 "General Principles for Preparation of Instructions for Use of Industrial Products"

GB/T 11345-1989 "Method for Manual Ultrasonic Testing and Classification of Testing Results for Ferritic Steel Welds"

GB/T 13306 "Plates"

GB/T 13325 "Noise Emitted by Machinery and Equipment-Guideline for the Preparation of Test Codes of Engineering Grade Requiring Noise Measurements at the Operators or by

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Standers Position" (GB/T 13325-1991, neq ISO 6081:1986)

GB/T 15706.2 "Safety of Machinery-Basic Concept, General Principles for Design-Part 2: Technical Principles and Specifications" (GB/T 15706.2-1995, eqv ISO/TR 12100-2:1992)

GB/T 16855.1 "Safety of Machinery - Safety-related Parts of Control Systems-Part 1: General Principles for Design" (GB/T 16855.1-1997, eqv PREN 954-1:1994)

JB/T 1581 "Ultrasonic Testing for the Detection of Rotor and Shaft Forgings of Steam Turbines and Turbine Generators" (JB/T 1581-1996, neq ASTM A418-1991)

JB 3277-2004 "Hydraulic Station for Mine Hoists and Mine Hoisting Winches"

JB/T 4263 "Electric Control Device for AC Drive of Mine Hoist"

JB/T 6754.1-1993 "Electric Control Device for DC Drive of Mine Hoist-Part 1: Electric Control Device of Unit"

JB/T 6754.2-1993 "Electric Control Device for DC Drive of Mine Hoist-Part 2: Electric Control Device of Thyristor"

JB/T 7929 "Cleanliness for Gear Drive Units"

JB 8516-1997 "Mine Hoists and Mine Winders-Safety Requirements"

JB 8519-1997 "Mine Hoist and Mine Winders-Disc Brakes"

MT/T 154.8-1996 "Preparation of Coal Mine Auxiliary Haulage Equipment Type"

MT/T 776 "Specification for Routine Inspection of Coal Mining Machine-hydraulic System Assembly"

"Safety Regulations in Coal Mine" by State Administration of Work Safety (2006 edition)

3 Terms and Definitions

For the purpose of this standard, the following terms and definition as well as those specified in GB/T 7679.3-2005 apply. Some terms in GB/T 7679.3-2005 are repeated for convenience.

3.1

Diameter of friction pulley

Two times the nominal distance from rope center on friction pulley to friction pulley center.

[GB/T 7679.3-2005, definition in 2.2.9]

3.2

Maximum static tension of rope

Maximum static load borne by the rope tangent to drum.

[GB/T 7679.3-2005, definition in 2.2.12]

3.3

Maximum static tension difference of rope

Maximum difference of static load between hoisting side and descending side of the rope.

[GB/T 7679.3-2005, definition in 2.2.13]

3.4

Maximum hoisting speed

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